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MikroTik Certified Trainer
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Philippines Partner:



Being in IT technology business roughly around 14 years Support & instruct Engineers more than 8 years all over the globe



Wireless, Routing, QoS, Firewall, The Dude

Mani Raissdana

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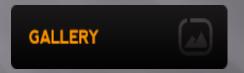






Training Schedule

```
http://www.mits-co.com/training_mikrotik%20
http://www.mits-co.com/training_ubiquiti
http://www.mits-co.com/training_elastix
```





Manila upcoming training sessions

April 14-16

Mikrotik

MTCNA

April 21-22

MikroTik

MTCTCE

April 17-18

Mikrotik

MTCRE

April 23-24

MikroTik

MTCWE

April 19-20

Mikrotik

MTCINE

April 25-26

MikroTik

MTCUME

April 26-30 (Elastix/Asterisk)



Table of contents

Dude

- What is Dude???
- What it does???
- How it works???
- How you should work with????
- Monitoring
- Notification

iGenTik

Interactive GSM/Email notification system



What is Dude

- MikroTik free Monitoring application
- Has 2 parts:
- 1. Client application: (Windows, Mac, Linux)
- 2. Server package: (RoS package) only for:
- MikroTik CCR Series
- RouterOS X86
- RouterOS CHR

RouterOS Version should be 6.34rc13 or higher to be able to use Dude

What it Does

- Scans (Discovers) your Network in layer 2
- Monitors availability of your network
- Keeps watching all your layer 3 devices
- Monitors all your links
- Supports layer 3 probes
- Supports SNMP
- Has direct access to your RouterOS (with Winbox)

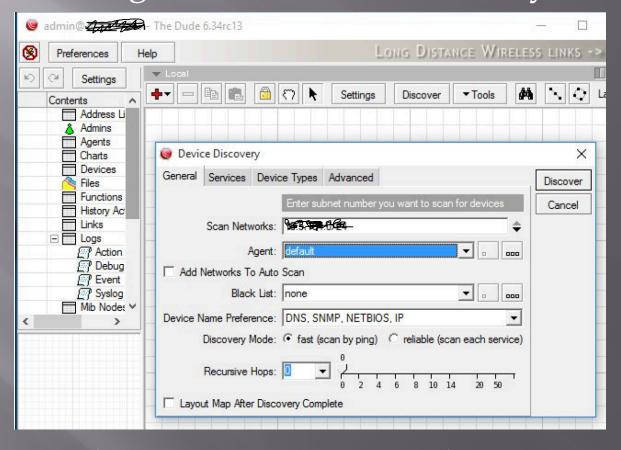
Here, we're talking about Dude V6, Which has some fundamental differences with legacy versions

How it works

After successful Installation, login page comes up

After Successful Login, Automatic Discovery feature will

jump up,



 You may like to discover your Network automatically or add everything manually

How it works

If you are working with legacy versions (V3 or V4), you are still be able to import your old database here

```
/dude import-db backup-file=(file_name_path)
```

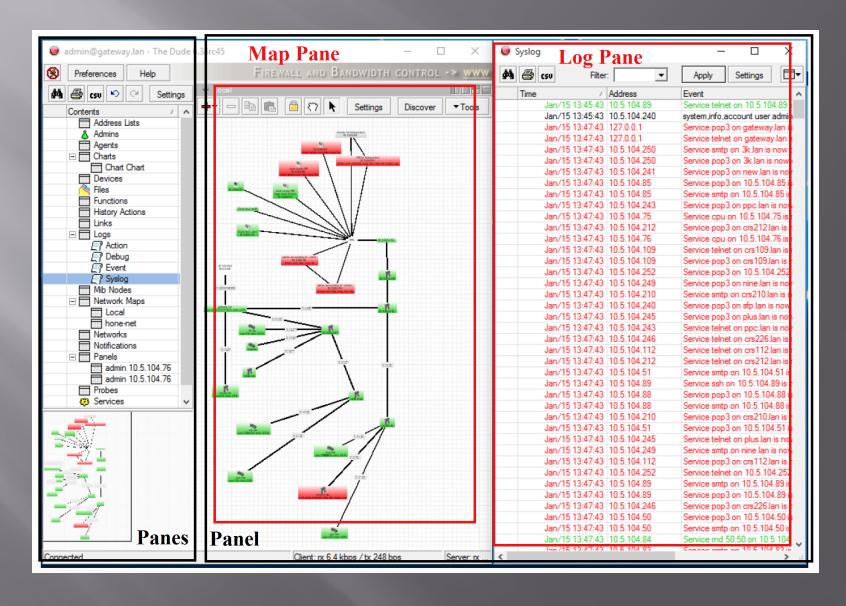
Or maybe you'd like to change the path of database

```
/dude set data-directory=(new_db_path)
```

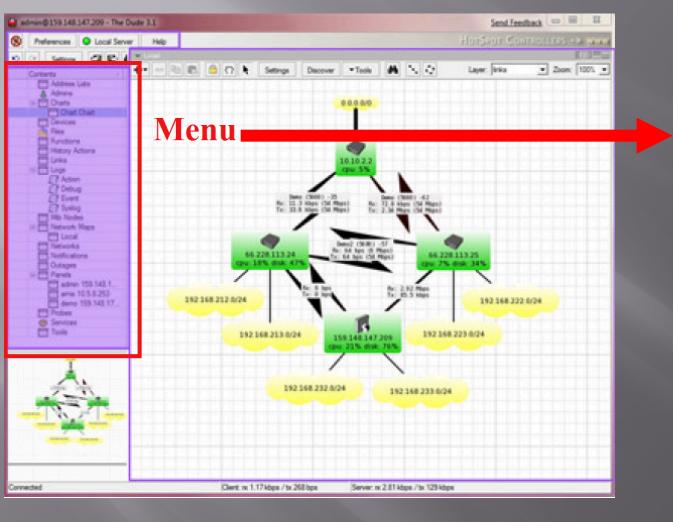
Change path procedure:

- Disable the Server
- 2. Move existing directory
- 3. Change the path of directory
- 4. Enable the Server

Interface



Menu

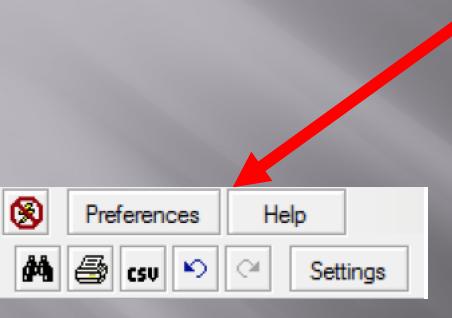


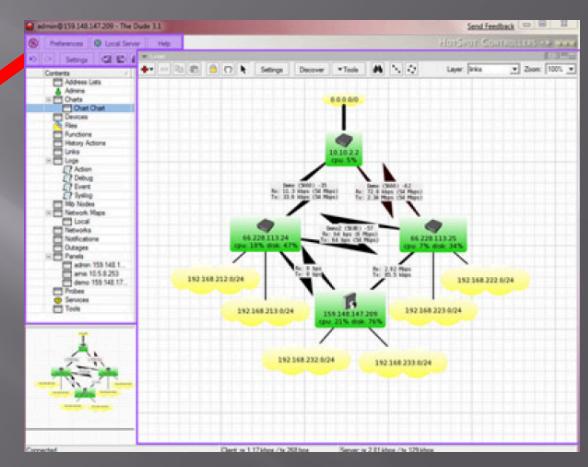
Contents
Address Lists
Admins Admins
☐ Charts
Chart Chart
Devices
Riles
Functions
History Actions
Links
□
Action
Debug
Event
Syslog
Mib Nodes
□ ■ Network Maps
Local
Networks
Notifications
Outages
□ □ Panels □ admin 159.148.1
amis 10.5.8.253
demo 159.148.17
Probes
Services
Tools
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Menu

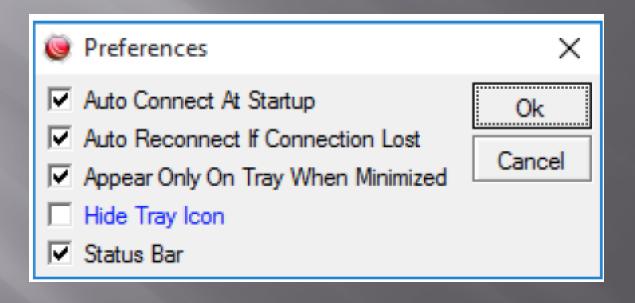
- Address lists: Lists of IP addresses to be used in Blocklist and other places
- Admins: Users who can access this particular Dude server
- Charts: Configure graphs based on any data source in the map
- Devices: List of all the devices drawn on any of the network maps
- Files: List of the files uploaded to the server, like images for network map backgrounds and sounds
- Functions: Functions that can be used, includes scripts and advanced queries
- History Actions: History of tasks performed by the admin, like adding or removing devices. Admin log.
- Links: List of all links in all maps.
- Logs: Logs of device statuses. Dude also includes a Syslog server, and can receive Logs from other devices.
- MIB nodes: Information about MIBs
- Network maps: All maps
- Networks: List of all network segments places on the map
- Notifications: Different ways to alert the admin of
- Panels: Allows to configure separate dude window entities for use on multiple monitors or otherwise
- Probes: Probes are responsible for polling specific services on the defices
- Services: Lists the currently monitored services on all devices
- Tools: Configures the tools that can be run on each device (ie. connect with winbox, telnet, ftp etc.)

Server Settings

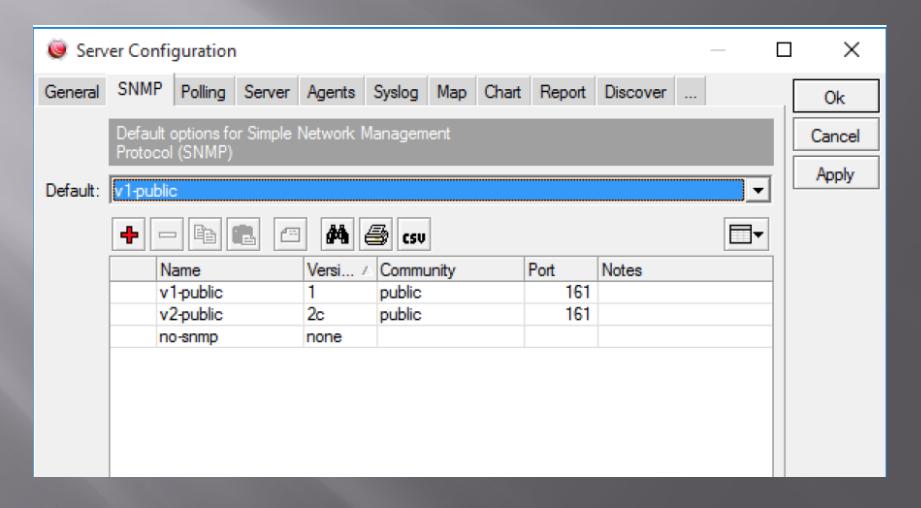




Preferences



Server Settings



Device Settings

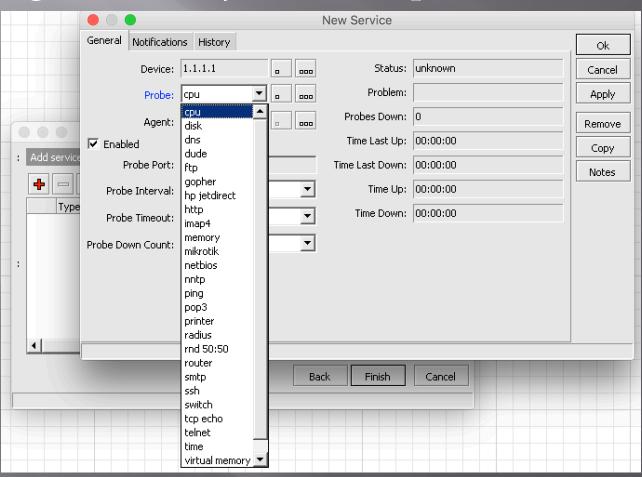
Adding devices is just few steps:

1-Add Device : Enter IP address or DNS name Address: : Login for fast access to device with Telnet/Winbox admin User Name: Password: ☐ Secure Mode Router OS Back Next Cancel

Device Settings

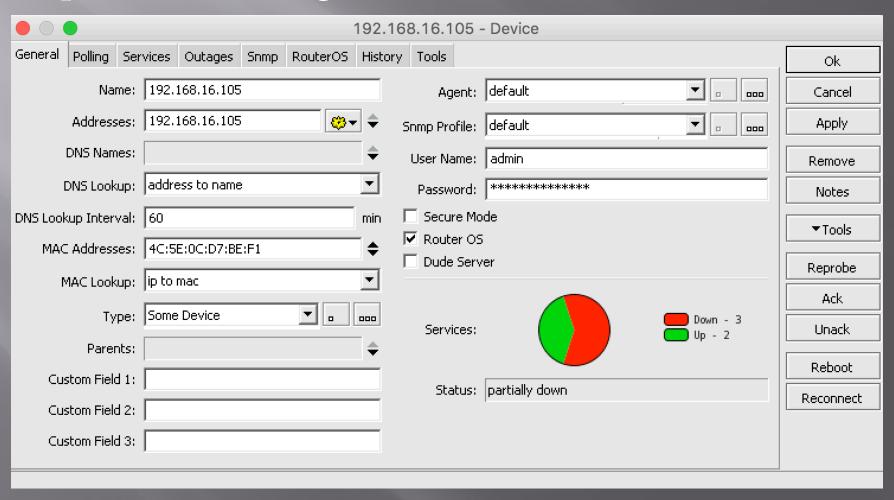
• Adding devices is just few steps:

2-



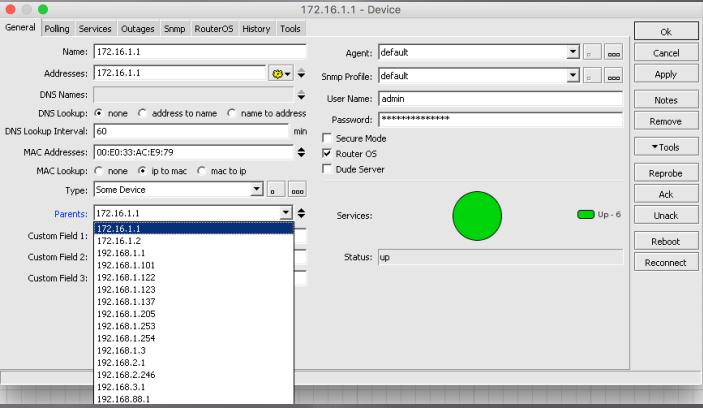
Device Settings

Important to configure accurate

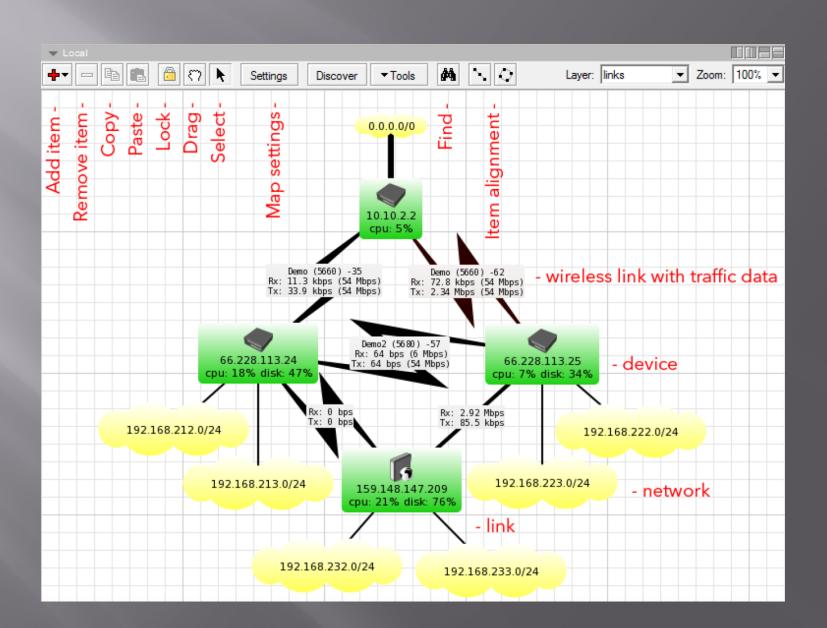


Maps:

- Map Contains 2 Layers
- 1- Device links
- 2- Device dependencies
- To avoid receiving reports about each device status when a parent device is unreachable, you can make dependency between devices



Maps:

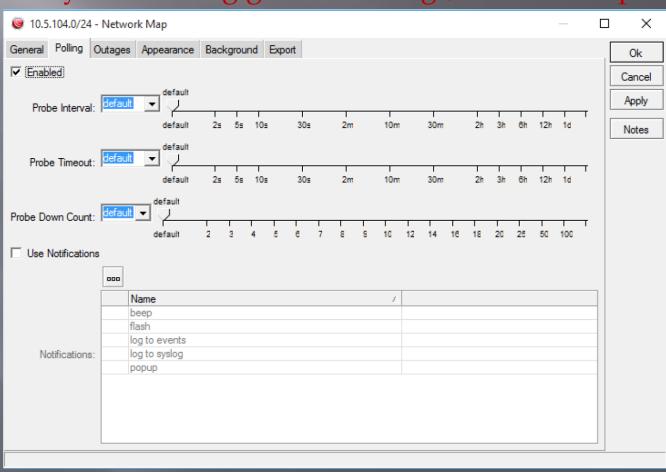


Maps:

Polling: This tab allows you to configure polling times and timeouts specifically for this map.

Map specific settings are always overriding general settings, but device specific

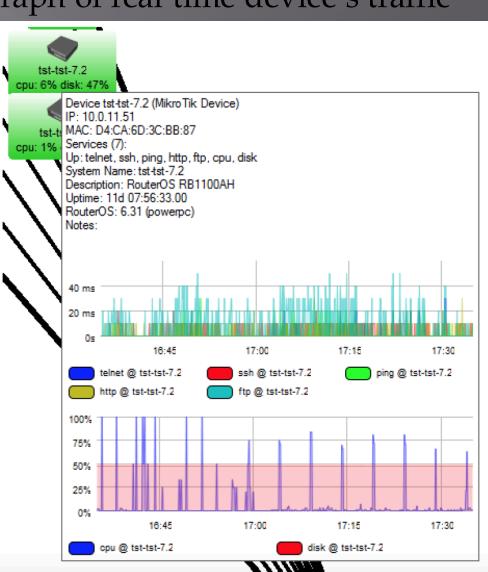
settings take preference.



How you should work with By The Way!!!!!!

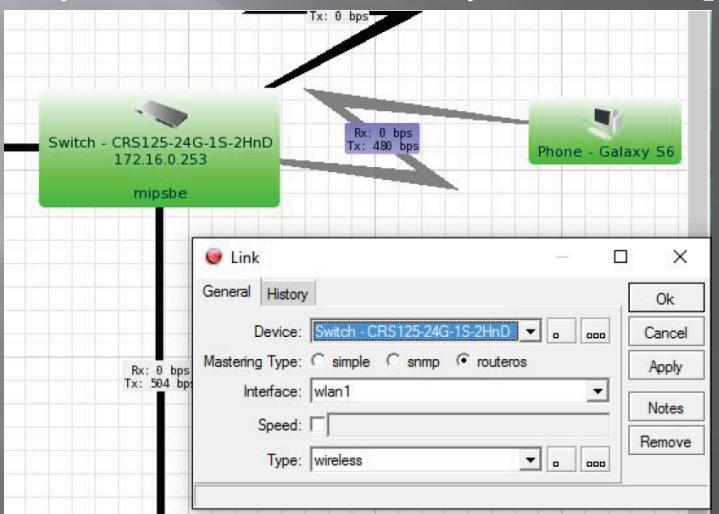
You also can monitor and have a graph of real time device's traffic

Interesting!!! Isn't it????? :) :) :)



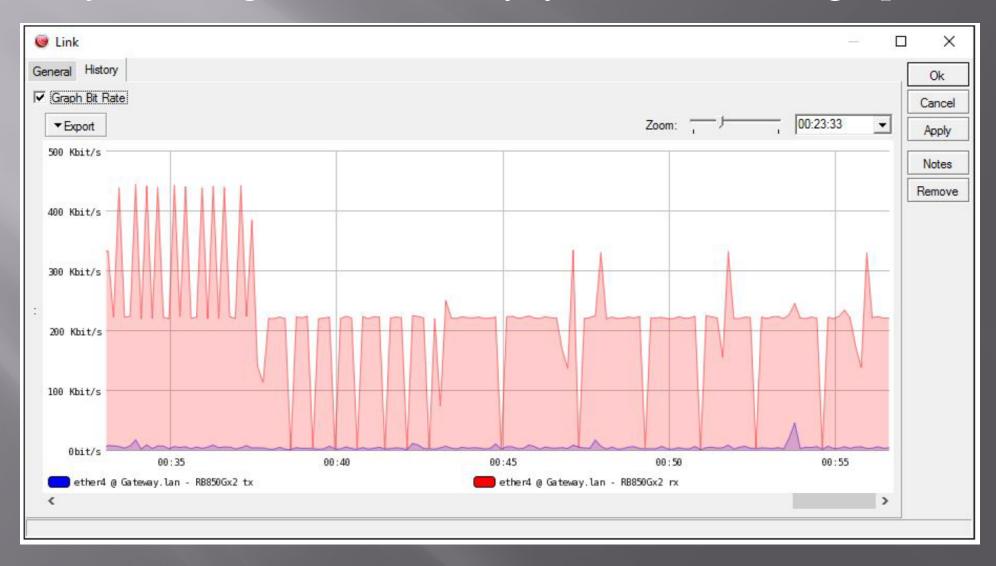
- Links list, shows all your links (different types)
- Also you can add links directly from the Map

Links



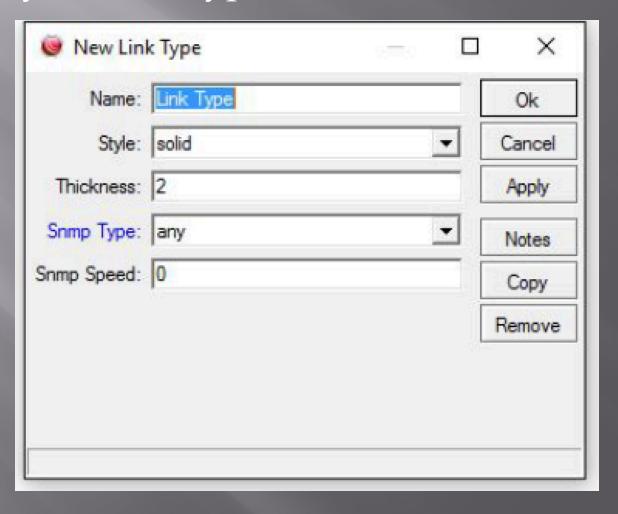
By checking out link history, you can find out graphs

Links



Links

There are some Link types by default, but also you can add your own type

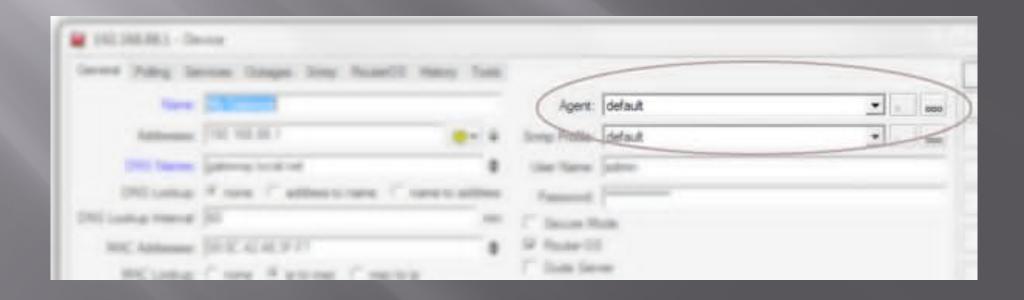


Monitoring

Agents



Agents are other Dude servers that can be used as intermediaries for dev monitoring.



Monitoring

Notifications:

- It's possible to configure any actions that can be taken when a device status changes.
- The predefined Notifications are the following:
- 1-Beep: Makes a beeping from the PC speaker of the server
- 2-Flash: Flashes the Dude taskbar menu
- 3-Log to Events: Saves information to local Event log
- 4-Log to Syslog: Saves information to Syslog
- 5-Popup: Opens a small notification window

Monitoring

Notifications:

You can also add new Notifications, more types are available

- 1-Email: Sends email, need to specify Server address
- 2-Execute locally: Run command on the local Windows machine (where Dude viewer runs), can pass variables
- 3-Sound: Plays sound. Sound files can be uploaded and chosen here
- 4-Group: Executes a group of actions
- 5-Speak: Uses Windows speech ability to say the message in a computerized voice
- 6-Log: Saves to local Dude Log file
- 7-Syslog: Saves to remote Syslog server. Need to specify Syslog address

But Something missing here!!!!!!!

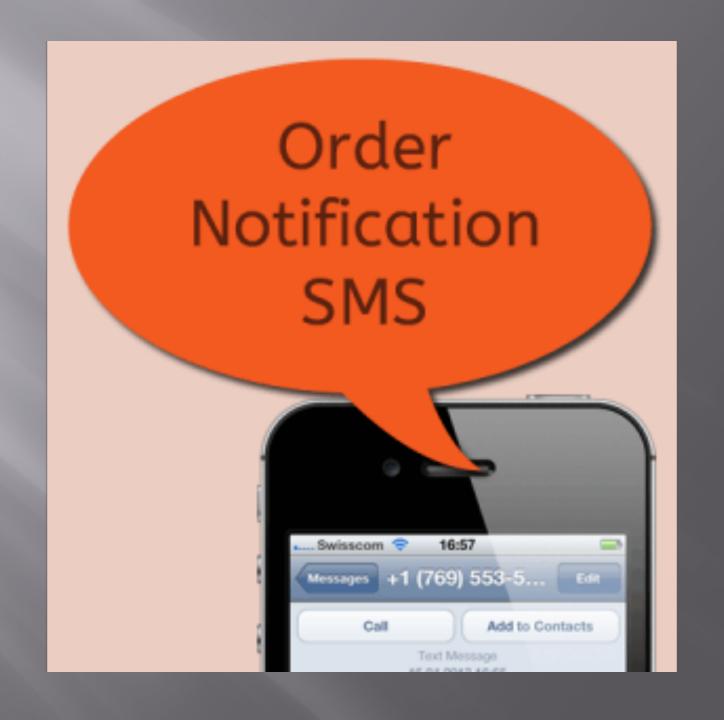
GSM Notification:

Sending text message to notify!!!!!

What????????

Now, let's talk about





■ iGenTik is Interactive GSM/Email notification system,

Based on MikroTik platform

with customizable GUI Interface

To notify anything you imagine

- built-in battery that can be alive for around an hour
- Sending notification by Text Message or Email about all Device's activities in the Network including:
 - 1. Any Public or Private host reachability
 - 2. VPN Connections: as soon as any VPN connections get connected,
 - 3. Queuing: if one queue rule gets 50%, 75% or 100% bandwidth
 - 4. by adding any route (Static, Dynamic) in routing table
 - 5. main/failover upstream replacement
 - 6. check ISP gateway: to make sure the availability of providers
 - 7. Firewall/NAT/Mangle Control: by adding any rules in these tables
 - 8. Logs notifications
 - 9. Traffic Control: weird TX/RX bandwidth
 - 10. Protocol check: weird UDP/TCP.ICMP... traffic
 - 11. Any kind of attack:
 - I. IP/Port Scan
 - II. DDOS Attack
 - III. Phishing Attack
 - IV. Hijack Attack
 - V. Buffer Attack
 - VI. Password Attack
 - VII. IP Spoofing
 - VIII. Sniffing
 - IX. Application Layer Attack

- 12. Wireless Control:
 - I. providing wrong pass by clients for several times
 - II. registration table reports (list of connected clients)
 - III. unwanted wireless login
- 13. City/UPS Power Check
 - I. voltage balance
 - II. Ampere balance
 - III. City Power up/down
 - IV. UPS power up/down
- 14. Elastix (Any VOIP Call Center) logs and reports including:
 - I. Emergency Calls
 - II. Call Duration
 - III. Trunk Failure
 - IV. Call Center Failure
 - V. Operator timeout
- 15. Antivirus Management notification (Kaspersky, Node, ...)

The Most interesting default features

- Replying Text Messages by receiving any Text Message (means you can send commands to it by messages or emails to get reports or to push doing something) including:
- Sending remote commands to get reports and logs
- Sending remote commands to any other device in the Network for
 - I. Disable/Enable Interface
 - II. Block/Unblock Users
 - III. Allow/Terminate any connections
 - IV. Turn on/turn off or restart Servers, routers ...

Has not released yet

Will announced as MikroTik MfM Project in a month

And will be ready to use sooooooon....

4

questions?

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Good Luck Enjoy MUM